

# Spot Safety Project Evaluation

## Project Information

Order ID: 41000030295

Project ID: 09-09-202

Location: NC 65, near Rural Hall, on outside of curve around milepost 3.62

County: Forsyth

City: Rural Hall

Division: 9

Signal ID: N/A

Countermeasure: Install guardrail

Project Completion: August 4, 2010

Project Cost: \$61,000

## Map and Aerial (from Google Maps, Google Coordinates are -- 36.242145,-80.27717)



### **Naive Before and After Analysis**

Before Period: March 1, 2006 through April 30, 2010 (4 years, 2 months)

Const. Period: May 1, 2010 through August 31, 2010

After Period: September 1, 2010 through October 31, 2014 (4 years, 2 months)

Analysis Criteria: Treatment data consisted of all crashes within 500 feet of the end of the guardrail on either side of the curve west of SR 1907 on NC 65 (mp 3.364 to 3.614).

Target Crashes: Lane Departure – Ran-Off Road (Left, Right, Straight), Sideswipe (Opposite Direction), Fixed Object, and Head-On

<b><u>Treatment Information</u></b>	<b>Before</b>	<b>After</b>	<b>Percent Reduction (-) Percent Increase (+)</b>
Total Crashes	7	1	- 85.7 %
Total Severity Index	15.0	1.0	- 93.3 %
Target Crashes	3	0	- 100.0 %
Target Crash Severity Index	28.7	0.0	- 100.0 %
Volume (2008, 2012)	4,400	4,300	- 2.3 %

<b><u>Injury Crash Summary</u></b>	<b>Before</b>	<b>After</b>	<b>Percent Reduction (-) Percent Increase (+)</b>
Fatal injury Crashes	0	0	N/A
Class A injury Crashes	1	0	- 100.0 %
Class B injury Crashes	2	0	- 100.0 %
Class C Injury Crashes	1	0	- 100.0 %
Property Damage Only	3	1	- 66.7 %

<b><u>Additional Information</u></b>	<b>Before</b>	<b>After</b>	<b>Percent Reduction (-) Percent Increase (+)</b>
Run-off Road Crashes (Target)	3	0	- 100.0 %
Guardrail Hit Crashes	0	0	N/A

### **Overall Summary Results**

Total Crashes:	- 86 %	(reduction)
Total Crash Severity:	- 93 %	(reduction)
Target Crashes:	- 100 %	(reduction)
Target Crash Severity:	- 100 %	(reduction)
Volume:	- 2 %	(reduction)

### **Additional Summary Results**

Run-off Road Crashes (Target):	- 100 %	(reduction)
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### **Items for Discussion/Concerns**

Two of the run-off road crashes in the before period also overturned. All the run-off road crashes in the before period also hit a fixed object (fence) near the curve according to the crash reports.

There were no lane departure crashes in the after period. Severity also decreased in the after period.

### **Data Prepared For**

The Traffic Safety Unit *of the*  
Transportation Mobility and Safety Division *of the*  
Division of Highways *of the*  
North Carolina Department of Transportation








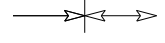


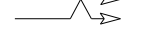







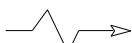














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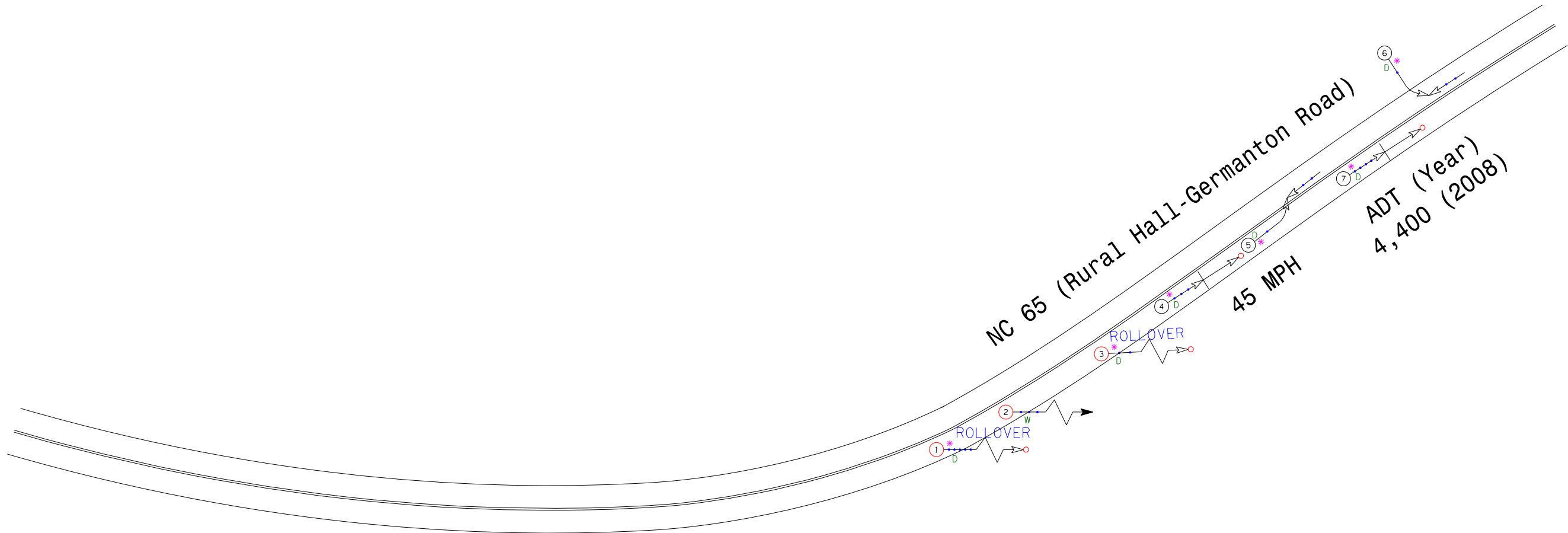
Principal Investigator: Elizabeth Scott, EI

Work Group/Consultant: Stantec Consulting Services Inc.

Date: December 18, 2014

SS# 09-09-202  
Order#41000030295  
Forsyth County  
Before Period  
3/1/2006 - 4/30/2010

LEGEND					
	MOVING VEHICLE		ANGLE		9 MPH OR LESS
	PARKED VEHICLE		TURNING		10 MPH TO 19
	PARKING VEHICLE		BACKING		20 MPH TO 29
	MOVABLE OBJECT		SIDESWIPE		30 MPH TO 39
	HEAD ON		INJURY		40 MPH TO 49
	REAR END		FATALITY		50 MPH TO 59
	RAN OFF ROAD		SPEED UNKNOWN		60 MPH TO 69
	DAYLIGHT CRASH		ANIMAL		70 AND UP
	NIGHT CRASH		PEDESTRIAN		ICY OR SNOWY
			BICYCLE		Other
			TRAIN		
			DRIVER AT FAULT		
			DRY		
			WET		



 Lane Departure  
Crashes

**N.C. DEPARTMENT of TRANSPORTATION**  
**DIVISION of HIGHWAYS**  
**TRANSPORTATION MOBILITY and SAFETY DIVISION**

Date: 12/17/2014








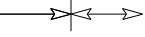


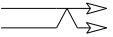

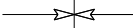


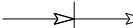


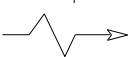














Prepared By: ESS

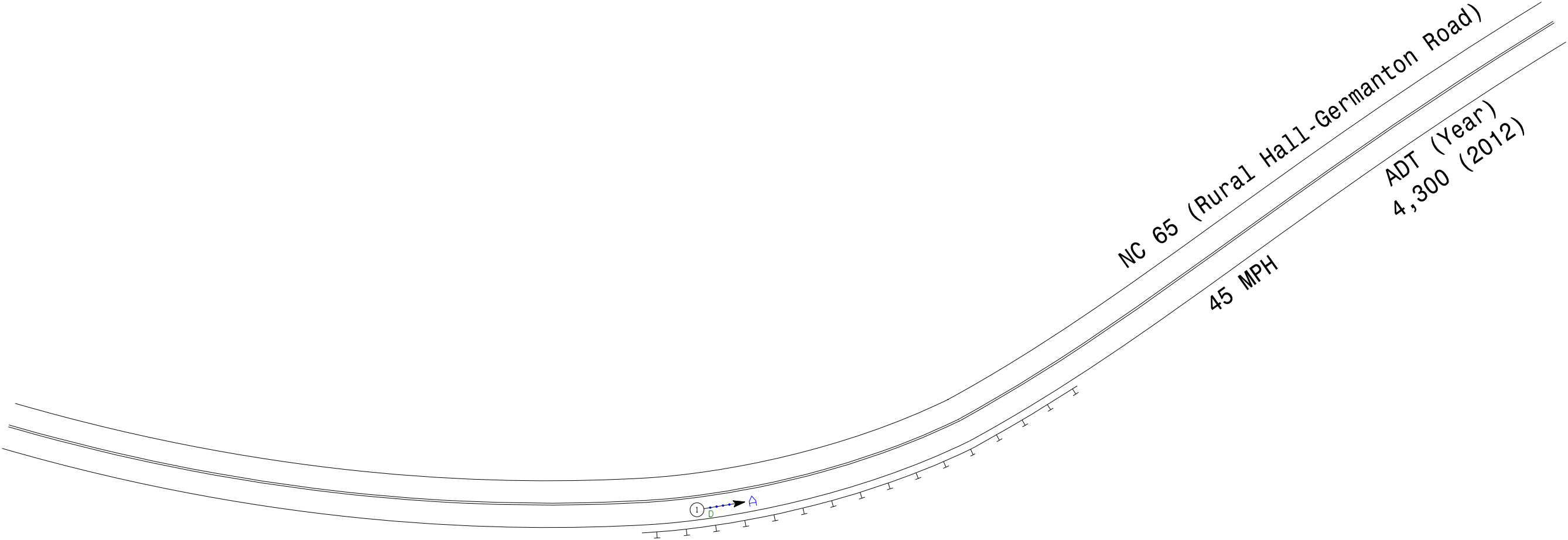


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Forsyth County  
After Period  
9/1/2010 - 10/31/2014

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 Lane Departure  
Crashes

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